Midterm practice: Factor quadratic, a =prime.

You should try to factor the expression. I recommend guess-and-check. If that is giving you too much trouble, try figuring out how you can use quadratic formula.

1. If n is an integer and $(x+n)$ is a factor of polynomial $3x^2-10x+3$ then what is the value of n?

2. If n is an integer and $(x+n)$ is a factor of polynomial $7x^2+18x+8$ then what is the value of n?

3. If n is an integer and $(x+n)$ is a factor of polynomial $7x^2-x-6$ then what is the value of n?

4. If n is an integer and $(x+n)$ is a factor of polynomial $3x^2+7x+2$ then what is the value of n?

5. If n is an integer and $(x+n)$ is a factor of polynomial $3x^2-7x-10$ then what is the value of n?

6. If n is an integer and $(x+n)$ is a factor of polynomial $2x^2+9x-5$ then what is the value of n?

7. If n is an integer and $(x+n)$ is a factor of polynomial $7x^2+9x+2$ then what is the value of n?

8. If n is an integer and $(x+n)$ is a factor of polynomial $7x^2+x-6$ then what is the value of n?

9. If n is an integer and $(x+n)$ is a factor of polynomial $2x^2-5x-12$ then what is the value of n?

10. If n is an integer and $(x+n)$ is a factor of polynomial $5x^2-4x-9$ then what is the value of n?

11. If n is an integer and $(x+n)$ is a factor of polynomial $5x^2-12x+7$ then what is the value of n?

12. If n is an integer and $(x+n)$ is a factor of polynomial $2x^2-3x-2$ then what is the value of n?

13. If n is an integer and $(x+n)$ is a factor of polynomial $5x^2-19x+18$ then what is the value of n?

14. If n is an integer and $(x+n)$ is a factor of polynomial $7x^2-x-8$ then what is the value of n?

15. If n is an integer and $(x+n)$ is a factor of polynomial $7x^2+3x-4$ then what is the value of n?

16. If n is an integer and $(x+n)$ is a factor of polynomial $2x^2+x-15$ then what is the value of n?

17. If n is an integer and $(x+n)$ is a factor of polynomial $2x^2+5x-3$ then what is the value of n?

18. If n is an integer and $(x+n)$ is a factor of polynomial $2x^2+9x+10$ then what is the value of n?

19. If n is an integer and $(x+n)$ is a factor of polynomial $3x^2+5x-8$ then what is the value of n?

20. If n is an integer and $(x+n)$ is a factor of polynomial $7x^2-15x+2$ then what is the value of n?

5. Factors as $(x+1)(3x-10)$ so $n=1$

16. Factors as $(x+3)(2x-5)$ so $n=3$

20. Factors as $(x-2)(7x-1)$ so $n=-2$

9. Factors as $(x-4)(2x+3)$ so $n=-4$

11. Factors as $(x-1)(5x-7)$ so $n=-1$

14. Factors as $(x+1)(7x-8)$ so $n=1$

8. Factors as $(x+1)(7x-6)$ so $n=1$

18. Factors as $(x+2)(2x+5)$ so $n=2$

10. Factors as $(x+1)(5x-9)$ so $n=1$

1. Factors as $(x-3)(3x-1)$ so $n=-3$

13. Factors as $(x-2)(5x-9)$ so $n=-2$

3. Factors as $(x-1)(7x+6)$ so $n=-1$

2. Factors as $(x+2)(7x+4)$ so $n=2$

7. Factors as $(x+1)(7x+2)$ so $n=1$

12. Factors as $(x-2)(2x+1)$ so $n=-2$

17. Factors as $(x+3)(2x-1)$ so $n=3$

4. Factors as $(x+2)(3x+1)$ so $n=2$

15. Factors as $(x+1)(7x-4)$ so $n=1$

19. Factors as $(x-1)(3x+8)$ so $n=-1$

6. Factors as $(x+5)(2x-1)$ so $n=5$